

WHAT IS CLAIMED IS:

- 1                   1.       A method of accessing position relevant Web content, comprising:  
2                   obtaining a location update relative to a position of a mobile terminal;  
3                   forming location criteria from the location update;  
4                   including the location criteria in a Web content request from the mobile  
5 terminal;  
6                   filtering results from the Web content request according to the location  
7 criteria to form the position relevant Web content; and  
8                   providing the position relevant Web content to the mobile terminal.
- 1                   2.       The method according to Claim 1, wherein obtaining the location  
2 update comprises receiving location information from a base station wirelessly coupled to  
3 the mobile terminal.
- 1                   3.       The method according to Claim 1, wherein obtaining the location  
2 update comprises receiving location information from a Global Positioning System (GPS).
- 1                   4.       The method according to Claim 1, wherein obtaining the location  
2 update comprises:  
3                   receiving map data associated with a first position of the mobile terminal;  
4                   projecting the map data onto a display of the mobile terminal;  
5                   indicating a second position of the mobile terminal on the projected map  
6 data; and  
7                   using the second position as the location update.
- 1                   5.       The method according to Claim 1, wherein forming location criteria  
2 comprises establishing a location accuracy parameter that defines an area surrounding the  
3 location update.
- 1                   6.       The method according to Claim 1, wherein the Web content request  
2 includes a HyperText Transport Protocol (HTTP) message.

- 1                   7.     The method according to Claim 6, wherein the HTTP message  
2     presents the location criteria within an HTTP header.
- 1                   8.     The method according to Claim 1, wherein the filtering further  
2     includes filtering the results from the Web content request according to a search keyword.
- 1                   9.     The method according to Claim 8, wherein the providing further  
2     includes providing the position relevant Web content that relates to the search keyword.
- 1                   10.    The method according to Claim 9, further comprising storing the  
2     position relevant Web content in a location bookmark area of the mobile terminal.
- 1                   11.    The method according to Claim 10, further comprising periodically  
2     updating the position relevant Web content.
- 1                   12.    The method according to Claim 11, further comprising categorizing  
2     the updated results according to a location heading.
- 1                   13.    The method according to Claim 12, wherein the categorized  
2     headings are prioritized according to the relative position of the mobile terminal.
- 1                   14.    The method according to Claim 11, further comprising  
2     automatically displaying the updated results in response to the relative position of the  
3     mobile terminal.

1           15.    A geographically based Web content system, comprising:  
2               a mobile terminal geographically located within the Web content system;  
3               a Web server adapted to receive Web content requests from the mobile  
4 terminal; and  
5               a search engine coupled to the Web server and adapted to gather location  
6 tagged Web content in response to the Web content requests, wherein location tags of the  
7 Web content gathered conform to geographical criteria expressed by the mobile terminal in  
8 the Web content requests.

1           16.    The geographically based Web content system according to Claim 15,  
2 wherein the mobile terminal comprises a location update module adapted to maintain a  
3 current location of the mobile terminal.

1           17.    The geographically based Web content system according to Claim  
2 16, wherein the location update module comprises a Global Positioning System (GPS)  
3 module.

1           18.    The geographically based Web content system according to Claim  
2 16, wherein the mobile terminal further comprises a geographical search module coupled  
3 to the location update module and adapted to convert the current location of the mobile  
4 terminal into the geographical criteria contained within the Web content request.

1           19.    The geographically based Web content system according to Claim  
2 18, wherein the Web content request includes a HyperText Transfer Protocol (HTTP)  
3 header containing the geographical criteria.

1           20.    The geographically based Web content system according to Claim  
2 15, wherein the mobile terminal further comprises a text to speech module adapted to  
3 convert textual portions of the Web content received from the Web server into audible  
4 information.

1                   21.     A mobile terminal wirelessly coupled to a network which includes  
2 location tagged Web content, the mobile terminal comprising:  
3                   a memory capable of storing a location update module and a geographical  
4 search module;  
5                   a processor coupled to the memory and configured by the location update  
6 module to maintain position information associated with the mobile terminal and  
7 configured by the geographical search module to request the location tagged Web content  
8 that relates to the position of the mobile terminal; and  
9                   a transceiver configured to receive the location tagged Web content from a  
10 Web server.

1                   22.     The mobile terminal according to Claim 21, further comprising a  
2 text to speech module adapted to convert textual portions of the location tagged Web  
3 content into audible information.

1                   23.     A computer-readable medium having instructions stored thereon  
2 which are executable by a mobile terminal for requesting location based Web content by  
3 performing steps comprising:  
4                   obtaining location updates relative to a position of the mobile terminal;  
5                   defining an area of interest surrounding the position of the mobile terminal;  
6 and  
7                   requesting location based Web content that conforms to the area of interest.

1                   24.     A Web server coupled to a network to facilitate a location based  
2 Web content search, the Web server comprising:

3                   means for receiving location based Web content requests containing  
4 location criteria associated with a location of a mobile terminal;

5                   means for communicating the location based Web content requests to a  
6 search engine;

7                   means for receiving responses from the search engine in response to the  
8 location based Web content requests; and

9                   means for filtering the responses to conform to the location criteria.

1                   25.     A computer-readable medium having instructions stored thereon  
2 which are executable by a Web server by performing steps comprising:

3                   receiving Web content requests containing location criteria associated with  
4 a location of a mobile terminal;

5                   communicating the Web content requests to a search engine;

6                   receiving responses from the search engine in response to the Web content  
7 requests; and

8                   filtering the responses to conform to the location criteria.

1                   26.     A mobile terminal wirelessly coupled to a network which includes  
2     Web content, the mobile terminal comprising:  
3                   a memory capable of storing a location update module and a geographical  
4     search module;  
5                   a processor coupled to the memory and configured by the location update  
6     module to maintain position information associated with the mobile terminal; and  
7                   a user interface adapted to display menu options whose selection configures  
8     the geographical search module to issue a search request used to locate the Web content,  
9     the menu options comprising:  
10                  a general search option that returns Web content irregardless of  
11     location tags associated with the Web content and the position information associated with  
12     the mobile terminal;  
13                  a location search option that returns Web content whose location  
14     tags comply with location information provided in the search request; and  
15                  a user centric search option that returns Web content whose location  
16     tags comply with the position information associated with the mobile terminal that is  
17     provided in the search request.

1                   27.     The mobile terminal according to Claim 26, wherein HyperText  
2     Transport Protocol (HTTP) headers contain the location information provided in the search  
3     requests associated with the location search option.

1                   28.     The mobile terminal according to Claim 26, wherein HyperText  
2     Transport Protocol (HTTP) headers contain the position information provided in the search  
3     requests associated with the user centric search option.

1                   29.     A mobile terminal wirelessly coupled to a network which includes  
2     Web content, the mobile terminal comprising:  
3                   a memory capable of storing a location update module and a geographical  
4     search module;  
5                   a processor coupled to the memory and configured by the location update  
6     module to maintain a position of the mobile terminal; and  
7                   a user interface adapted to display menu options whose selection determines  
8     a search request used to locate the Web content, the menu options comprising an automatic  
9     search option that configures the geographical search module to automatically issue the  
10    search request depending upon the position of the mobile terminal, wherein a HyperText  
11    Transport Protocol (HTTP) header in the search request includes the position of the mobile  
12    terminal.

1                   30.     The mobile terminal according to Claim 29, wherein the Web  
2     content received in response to the search request is used to update Web content previously  
3     bookmarked.

1                   31.     The mobile terminal according to Claim 30, wherein the bookmarks  
2     representing previously received Web content are sorted according to the position of the  
3     mobile terminal relative to location information contained within the Web content.

1                   32.     A geographically based Web content system, comprising:  
2                   a mobile terminal geographically located within the Web content system;  
3                   a Web server coupled to receive Web content requests from the mobile  
4     terminal; and  
5                   a content provider coupled to the Web server, wherein the content provider  
6     contains Web pages that include eXtensible Markup Language (XML) to define location  
7     information associated with the Web pages.

1                   33.     The geographically based Web content system according to Claim  
2     32, wherein the location information is contained within a meta tag.

1                   34.     The geographically based Web content system according to Claim  
2 32, wherein the location information is defined by a location tag.

1                   35.     The geographically based Web content system according to Claim  
2 32, wherein the location information is contained within an XML file.

1                   36.     The geographically based Web content system according to Claim  
2 32, wherein the location information further includes location parameters associated with  
3 the location information, the location parameters including validity area and access rights.

1                   37.     The geographically based Web content system according to Claim  
2 36, wherein the mobile terminal is denied access to the Web page if the geographical  
3 location of the mobile terminal falls outside of the validity area associated with the Web  
4 page.

1                   38.     A mobile terminal wirelessly coupled to a network which includes  
2 location tagged Web content, the mobile terminal comprising:  
3                   a memory capable of storing a location update module and a geographical  
4 search module;  
5                   a processor coupled to the memory and configured by the location update  
6 module to maintain a position of the mobile terminal; and  
7                   a user interface adapted to display menu options whose selection determines  
8 a search request used to locate the location tagged Web content, the menu options  
9 comprising a tour search option that configures the geographical search module to issue an  
10 alarm once the location update module has determined that the mobile terminal has come  
11 within a programmable proximity to a location indicated by the location tagged Web  
12 content.

1                   39.     The mobile terminal according to Claim 38, wherein the alarm  
2 includes one of an audio, visual, and tactile feedback.



1                   40.     The mobile terminal according to Claim 39, wherein the visual  
2 alarm includes a rendering of the location tagged Web content whose proximity the mobile  
3 terminal is within.